2019 Structure Summary Report

Overall Unit and Item Ratings

DWR Sacramento Maintenance Yard

Cache Creek Settling Basin Weir And Drainage Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	Α
	Shoaling / Sedimentation	Α
	Erosion / Bank Caving	Α
	Revetments	А
	Encroachments	А
	Culverts: Inlets / Outlets	М
	Culverts: Breaks / Holes / Cracks	Α
	Metal Pipes	N
	Trash Racks	Α
	Flap Gates	Α
	Sluice/Slide Gates	Α
	Electric Gate Operators	N
	Manual Gate Operators	Α
	Concrete Surfaces	Α
	Concrete Tilting / Settlement	Α
	Concrete Foundations	Α
	Security Fencing	Α
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	Α
	Safety	Α
	Operation & Maintenance Manual	Α

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2019 Structure Summary Report

Overall Unit and Item Ratings

DWR Sacramento Maintenance Yard (cont.)

Fremont Weir

Overall Unit Rating	Rated Item	Item Rating
Α	Photo Documentation	N
	Vegetation & Obstructions	Α
	Shoaling / Sedimentation	Α
	Erosion / Bank Caving	М
	Revetments	Α
	Encroachments	Α
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	Α
	Concrete Tilting / Settlement	М
	Concrete Foundations	Α
	Security Fencing	Α
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	Α
	Safety	Α
	Operation & Maintenance Manual	Α

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2019 Structure Summary Report

Overall Unit and Item Ratings

DWR Sacramento Maintenance Yard (cont.)

Knights Landing Outfall Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	Α
	Shoaling / Sedimentation	Α
	Erosion / Bank Caving	Α
	Revetments	Α
	Encroachments	Α
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	Α
	Sluice/Slide Gates	Α
	Electric Gate Operators	Α
	Manual Gate Operators	Α
	Concrete Surfaces	Α
	Concrete Tilting / Settlement	Α
	Concrete Foundations	Α
	Security Fencing	Α
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	Α
	Monolith Joints	А
	Safety	А
	Operation & Maintenance Manual	Α

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2019 Structure Summary Report

Overall Unit and Item Ratings

DWR Sacramento Maintenance Yard (cont.)

Paradise Dam

Overall Unit Rating	Rated Item	Item Rating
M	Photo Documentation	N
	Vegetation & Obstructions	U
	Shoaling / Sedimentation	Α
	Erosion / Bank Caving	Α
	Revetments	А
	Encroachments	Α
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	N
	Concrete Tilting / Settlement	N
	Concrete Foundations	N
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	N
	Safety	Α

Operation & Maintenance Manual

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2019 Structure Summary Report

Overall Unit and Item Ratings

DWR Sacramento Maintenance Yard (cont.)

Sacramento Weir

Overall Unit Rating	Rated Item	Item Rating
M	Photo Documentation	N
	Vegetation & Obstructions	Α
	Shoaling / Sedimentation	Α
	Erosion / Bank Caving	Α
	Revetments	N
	Encroachments	М
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	М
	Electric Gate Operators	N
	Manual Gate Operators	Α
	Concrete Surfaces	М
	Concrete Tilting / Settlement	Α
	Concrete Foundations	Α
	Security Fencing	Α
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	Α
	Monolith Joints	Α
	Safety	Α

Operation & Maintenance Manual

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Unit Cover Sheet

2019 Structure Inspection Results

DWR Sacramento Maintenance Yard

Structure
Cache Creek Settling Basin Weir And Drainage Structure

Structure Rating	Α
Date of Inspection	6/25/2019 - 7/23/2019
DWR Inspector	Zach Jojola
Accompanied By	

Levee Inspection Report By Mile - Structure 2019

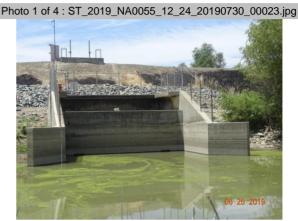
DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.		24
LM End	0.00	Issue Type +	Ma	Location *	CR	
Structures & Concrete Lined		GPS Latitude/Longitude				
Category	Channels	Channels				End
Item	Photo Documentation			38.6824	38°	38.687317°
пеш				-121.672924°		-121.673711 °
DWR ID DWR_NA0055_12_t _ 2012_24						
Action/Comments						

Inspector Comments: View of the weir and the drainage structure at the inlet and outlet locations.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



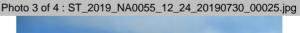
View of outlet structure. Summer 2019.

Photo 2 of 4: ST_2019_NA0055_12_24_20190730_00024.jpg



View of weir from the South abutment. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR





View of the weir from the North abutment. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

tor & Maintain En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24 (cont)		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels	Channels				End	
Item	Photo Do	cumentation		38.6824	38°	38.687317°	
пеш				-121.6729	24 °	-121.673711 °	
DWR ID	DWR_NA0	055_12_t _ 201	2_24				
	Action/Comments						

Inspector Comments: View of the weir and the drainage structure at the inlet and outlet locations.



View of inlet structure. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		2	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Catagony	Structures & Concrete Lined Channels			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n & Obstructio	ons	38.6824	60°	38.687350°	
пеш				-121.6729	30°	-121.673740 °	
DWR ID	DWR_NA0	055_12_t _ 201	2_2				
			_				

Action/Comments

Inspector Comments: Scattered vegetation at the top of the weir. The flow is not impededed.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		3		
LM End	0.00	Issue Type +	Ma	Location *		a Location *		CR
Category	Structures & Concrete Lined		GPS Latitude/Longitude		le/Longitude			
Calegory	Channels	Channels		Start		End		
Item	Shoaling /	Sedimentation	on	38.6824	60°	38.687350°		
пеш				-121.6729	30°	-121.673740 °		
DWR ID	DWR_NA0	055_12_t _ 201	2_3			·		

Action/Comments

Inspector Comments: No shoaling or sedimentation present.

No Photos

* Location LS: Land Side WS: Water Side CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	4		
LM End	0.00	Issue Type +	Ма	Location *	CR		
Category	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels			Start		End	
Item	Erosion /	Bank Caving		38.68246	0 °	38.687350 °	
пеш				-121.67293	0 °	-121.673740 °	
DWR ID	DWR_NA0	55_12_t _ 2018_4					
	Action/Comments						

Inspector Comments: No active erosion or bank caving observed.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		5	
LM End	0.00	Issue Type + Ma		Location *		CR	
Category	Structures & Concrete Lined		GPS La	atitud	e/Longitude		
Calegory	Channels	Channels		Start		End	
Item	Revetmer	nts		38.6824	60°	38.687350°	
пеш			-121.6729	30°	-121.673740 °		
DWR ID	DWR NA0055 12 t 2012 5		2 5				

Action/Comments

Inspector Comments: Existing riprap protection is properly maintained. Riprap is clearly visible and undamaged.



View of the riprap adjacent to the stilling basin. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		6
LM End	0.00	Issue Type +	Ma	Location *	CR	
Category	Structures & Concrete Lined		GPS Latitude/Longitude		e/Longitude	
Calegory	Channels	hannels		Start		End
Item	Encroach	ments		38.68246	o°	38.687350
пеш				-121.67293	o°	-121.673740
DWR ID	DWR_NA0	055_12_t _ 201	2_6			

Action/Comments

Inspector Comments: No trash, debris, excavation, structures, or other obstructions is present within the project easement area.

No Photos

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.	7		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels	hannels				End	
Item	Culverts:	Inlets / Outlets	5	38.68246	° 08	38.687350°	
пеш				-121.67293	30°	-121.673740 °	
DWR ID	DWR_NA0	0055_12_t _ 2012_7					
	Action/Comments						

Inspector Comments: Some debris partially blocking drainage inlet within Cache Creek Settling Basin.

LM Start	0.00	Rating **	М	Issue No.	7 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of debris at the low-flow cnahhel inlet. Summer 2019.

Photo 2 of 2: ST_2019_NA0055_12_7_20190725_00017.jpg



Additional view of the debris. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		8	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Category		Structures & Concrete Lined		GPS Latitude/Longitude			
Calegory	Channels			Start		End	
Item		Breaks / Hole	s/	38.6824	60°	38.687350	٥
пеш	Cracks			-121.6729	30°	-121.673740	٥
DWR ID	DWR_NA0	055_12_t _ 201	2_8				

Action/Comments

Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage.

No Photos

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable M : Minimally Acceptable N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	9		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category Structures & Concrete Lined Channels				GPS Latitude/Longitude			
				Start		End	
Item	Metal Pipes			38.6824	60°	38.687350°	
пеш				-121.67293	30°	-121.673740 °	
DWR ID DWR_NA0055_12_t _ 2012_9							
Action/Comments							

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Α 10 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Trash Racks 38.682460° 38.687350° Item -121.672930° -121.673740 ° DWR ID DWR_NA0055_12_t _ 2017_10

Action/Comments

Inspector Comments: Trash racks are fastened in place and properly maintained.

LM Start	0.00	Rating **	Α	Issue No.	11			
LM End	0.00	Issue Type +	Ma	Location *	CR			
Category		s & Concrete I	Lined	GPS La	titud	le/Longitude		
Calegory	Channels			Start		End		
Item	Flap Gate	s		38.68246	° 08	38.687350	0	
item				-121.67293	30°	-121.673740	0	
DWR ID	DWR_NA0	055_12_t _ 201						
Action/Comments								

Inspector Comments: Flap gates open and close easily with minimal leakage.

No Photos

No Photos

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

State of California - Department of Water Resources - Division of Flood Management - Flood Project Integrity & Inspection Branch

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	12	
LM End	0.00	Issue Type +	Ma	Location *	CR	
Category	Structures	_ined	GPS Latitude/Longitude			
Calegory	Channels		Start		End	
Item	Sluice/Slic	de Gates		38.68246	o°	38.687350 °
пеш				-121.67293	o°	-121.673740 °
DWR ID	DWR_NA0	DWR_NA0055_12_t _ 2012_12				
Action/Comments						

Inspector Comments: Gates open and close freely and free of sediment and other obstructions.

No Photos

Rating ** Issue No. LM Start 0.00 Ν 13 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Electric Gate Operators 38.682460° 38.687350° Item -121.672930° -121.673740 ° DWR ID DWR NA0055 12 t 2012 13

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

LM Start	0.00	Rating **	Α	Issue No.	14		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Catagory	Category Structures & Concrete Lined Channels				GPS Latitude/Longitude		
Calegory						End	
Item	Manual Gate Operators			38.6824	60°	38.687350°	
пеш				-121.67293	30°	-121.673740 °	
DWR ID DWR_NA0055_12_t _ 2012_14							
Action/Comments							

Inspector Comments: The gate operators are in good working condition.



View of the gate operators to the drainage structure. Summer 2018.

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *	CR	
Structures & Concrete Lined				GPS Latitude/Longitude		
Category	Channels				Start	
Item	Concrete Surfaces			38.6824	60°	38.687350
пеш				-121.6729	30°	-121.673740
DWR ID	DWR ID DWR_NA0055_12_t _ 2012_15					
Action/Comments						

Inspector Comments: Negligible spalling and cracking. Cracks should be sealed to prevent freeze/thaw damage.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of south weir abutment. Summer 2019.

Photo 2 of 5: ST_2019_NA0055_12_15_20190725_00019.jpg



View of minot cracking within the stilling basin. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of patched crack on weir apron. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

intain En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		CR
Category	Structures & Concrete Lined Channels			GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Concrete	Surfaces		38.6824	60°	38.687350°
пеш			-121.6729	30°	-121.673740°	
DWR ID DWR_NA0055_12_t _ 2012_15						
Action/Comments						

Inspector Comments: Negligible spalling and cracking. Cracks should be sealed to prevent freeze/thaw damage.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ма	Location *	CR



View of spalling on the weir steps. Summer 2019.

Photo 5 of 5: ST_2019_NA0055_12_15_20190725_00022.jpg



View of the north weir abutment. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		16
LM End	0.00	Issue Type +	Ma	Location *		CR
Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels			Start		End
Item	Concrete Tilting / Settler		Filting / Settlement 38.682460		60°	38.687350
пеш				-121.6729	30°	-121.673740
DWR ID	DWR_NA0	055_12_t _ 201	2_16			
		Action/	Comme	nts		
Inspector (Inspector Comments: No noticeable tilting or settlement observed.					

No Photos

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	17			
LM End	0.00	Issue Type +	Ма	Location *	CR			
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude					
			Start		End			
Item	Concrete Foundations			38.68246	0 °	38.687350°		
item			-121.67293	0 °	-121.673740°			
DWR ID DWR_NA0055_12_t _ 2012_17								
	A :: 10							

Action/Comments

Inspector Comments: No scouring / erosion or undermining near the structure.

No Photos

Issue No. LM Start 0.00 Rating ** Α 18 Issue Type + Ма Location * CR 0.00 LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Security Fencing 38.682460° 38.687350° Item -121.672930° -121.673740 ° DWR ID DWR_NA0055_12_t _ 2012_18

Action/Comments

Inspector Comments: Safety / security fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.

No Photos

Rating ** Issue No. LM Start 0.00 19 0.00 Issue Type + Location * CR I M End Ma Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Closure Structures 38.682460° 38.687350 ° Item -121.672930° -121.673740 ° DWR ID DWR_NA0055_12_t _ 2012_19 Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS: Land Side WS: Water Side CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	20	
LM End	0.00	Issue Type +	Ма	Location *	CR	
Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Category Channels			Start		End
ltom	Trash Rakes			38.68246	o°	38.687350°
пеш	Item			-121.67293	o°	-121.673740 °
DWR ID DWR_NA0055_12_t _ 2012_20						
		A ation/	Camma	nt n		

Action/Comments Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 21 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Other Metallic Items 38.682460° 38.687350° Item -121.672930° -121.673740 ° DWR ID DWR_NA0055_12_t _ 2012_21

No Photos

No Photos

Action/Comments

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	Α	Issue No.	22		
LM End	0.00	Issue Type +	Ма	Location *		CR	
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Monolith Joints			38.6824	60°	38.687350°	
item				-121.6729	30°	-121.673740°	
DWR ID DWR_NA0055_12_t _ 2012_22					·		
Action/Comments							

Inspector Comments: The joints appear to be in good condition.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable

M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Cache Creek Settling Basin Weir And Drainage Structure		06/25/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	23	
LM End	0.00	Issue Type +	Ma	Location *	CR	
Category	Structures & Concrete Lined			GPS Latitude/Longitude		
Calegory	Channels			Start		End
Item	Safety	Safety		38.68246	0°	38.687350°
пеш				-121.67293	0°	-121.673740 °
DWR ID	DWR_NA0	055_12_t _ 201	2_23			

Action/Comments

Inspector Comments: Safety hardware is installed and an adequate protection for fall hazards exist. No hazardous conditions exist that might affect the operation of the structure.

Rating ** Issue No. LM Start 0.00 Α 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Operation & Maintenance 38.682438° 38.687317° Item Manual -121.672924° -121.673711° DWR ID DWR_NA0055_12_t _ 2013_1 Action/Comments

Inspector Comments: LMA has O&M manual for the structure.

No Photos

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Unit Cover Sheet

2019 Structure Inspection Results

DWR Sacramento Maintenance Yard

Structure	
Fremont Weir	

Structure Rating	Α
Date of Inspection	7/16/2019
DWR Inspector	Zach Jojola
Accompanied By	Ted Skidgel DWR

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24		
LM End	0.00	Issue Type +	Ma	Location *		CR	
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Category Channels			Start		End	
Item	Photo Documentation			38.7588	80°	38.764680 °	
item				-121.6653	80°	-121.635430 °	
DWR ID DWR_NA0055_2_t _ 2012_24							
Action/Comments							

Inspector Comments: Pictures along the weir structure.

Photo 1 of 9: ST_2019_NA0055_2	2_24_20190717_00021.jpg
	W 16 2019

View of the weir from the east abutment. Summer 2019.

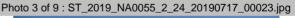
LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR

Photo 2 of 9: ST_2019_NA0055_2_24_20190717_00022.jpg



View of the east abutment. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
I M End	0.00	Issue Type +	Ma	Location *	CR





View of the weir from the fish passage structure, facing east. Summer 2019.

* Location

LS: Land Side

WS: Water Side

CR: Crown

* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type Ma : Mainte

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24 (cont)		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Catagony	Structures & Concrete Lined			GPS Latitude/Longitude			
Category Channels		Start		End			
Item	Photo Documentation			38.7588	80°	38.764680 °	
item			-121.66538	80°	-121.635430 °		
DWR ID	DWR ID DWR_NA0055_2_t _ 2012_24						
Action/Comments							

Inspector Comments: Pictures along the weir structure.

07 16 2019

Photo 4 of 9: ST_2019_NA0055_2_24_20190717_00024.jpg

View of the weir midpoint, facing southwest. Summer 2019.

LM Start 0.00 Rating ** Issue No. 24 (cont) Location * CR LM End 0.00 Issue Type + Ma

Photo 5 of 9: ST_2019_NA0055_2_24_20190717_00025.jpg



View of the weir from the midpoint, facing northeast. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of the midpoint, facing northeast. Summer 2019.

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24 (cont)	
LM End	0.00	Issue Type +	Ma	Location *	CR	
Structures & Concrete Lined			GPS Latitude/Longitude			
Category	Channels		Start		End	
Item	Photo Documentation			38.75888	80°	38.764680 °
пеш				-121.66538	80°	-121.635430 °
DWR ID	R ID DWR_NA0055_2_t _ 2012_24					
Action/Comments						

Inspector Comments: Pictures along the weir structure.



View of the weir from the midpoint, facing southwest. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR

Photo 8 of 9 : ST_2019_NA0055_2_24_20190717_00028.jpg



View of the west abutment. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of the weir from the west abutment. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	2		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Catagony	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Category Channels		Start		End		
Item	Vegetation & Obstructions		38.75888	0 °	38.764680 °		
llem			-121.66538	0 °	-121.635430 °		
DWR ID	DWR_NA0	055_2_t _ 2012	_2				
A = 1' = = 1 (O = = = = = = 1 =							

Action/Comments

Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.

No Photos

Rating ** Issue No. LM Start 0.00 Α 3 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Shoaling / Sedimentation 38.758880° 38.764680° Item -121.665380° -121.635430 ° DWR_NA0055_2_t _ 2012_3 DWR ID

Action/Comments

Inspector Comments: No shoaling or sedimentation present.

No Photos

LM Start	0.00	Rating **	М	Issue No.	4			
LM End	0.00	Issue Type +	Ma	Location *	CR			
Category	s & Concrete I	GPS Latitude/Longitude						
Calegory	Channels	Start		End				
Item	Erosion /	Bank Caving		38.75888	30°	38.764680 °		
пеш				-121.66538	30°	-121.635430 °		
DWR ID DWR_NA0055_2_t _ 2012_4								
	Action/Comments							

Inspector Comments: Some active erosion on the downstream end of the new fish passage structure. DOE confirmed that they will repair prior to October 31, 2019.



View of the erosion on the downstream end of the fish passage structure. Summer 2019.

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	5			
LM End	0.00	Issue Type +	Ma	Location *	CR			
Structures & Concrete Lined				GPS Latitude/Longitude				
Channels				Start		End		
Item	Revetmer	nts		38.75888	0°	38.764680 °		
пеш				-121.66538	° 0	-121.635430 °		
DWR ID DWR_NA0055_2_t _ 2012_5								
	Action/Comments							

Inspector Comments: Riprap is in good condition.



View of the revetment along the weir. Summer 2019.

LM Start	0.00	0.00 Rating ** A		Issue No.		6		
LM End	0.00	Issue Type + Ma		Location *		CR		
Catagony	Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Category Channels		Start		End			
Item	Encroach	ments		38.7588	80°	38.764680°		
item			-121.6653	80°	-121.635430 °			
DWR ID	DWR_NA0	055_2_t _ 2012	_6					

Action/Comments

Inspector Comments: Some wood piles along the weir. They will not impede the flow, but should be removed.



View of wood pile. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.		7			
LM End	0.00	Issue Type +	Ma	Location *		CR			
Category	Structures & Concrete Lined				GPS Latitude/Longitude				
Calegory	Channels		Start		End				
Itom	Culverts:	Inlets / Outlets	5	38.7588	80°	38.764680	0		
пеш	Item			-121.6653	80°	-121.635430	0		
DWR ID	DWR_NA0	055_2_t _ 2017	_7						
	Action/Comments								

Inspector Comments: This item does not apply to this inspection.

No Photos

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	8		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category	& Concrete I	GPS Latitude/Longitude					
Calegory	Channels			Start		End	
Item		Breaks / Hole	s/	38.7588	30°	38.764680 °	
пеш	Cracks			-121.6653	30°	-121.635430 °	
DWR ID	DWR_NA0055_2_t _ 2012_8						
Action/Comments							

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	N	Issue No.		9	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Cotogoni		s & Concrete I	_ined	GPS La	atitud	le/Longitude	
Calegory	Channels Channels		Start		End		
Item	Metal Pipe	es		38.7588	80°	38.764680	0
пеш				-121.6653	80°	-121.635430	0
DWR ID	DWR_NA0	055_2_t _ 2012	_9				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Rating ** Issue No. LM Start 0.00 10 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Trash Racks 38.758880° 38.764680° Item -121.665380° -121.635430 ° DWR_NA0055_2_t _ 2012_10 DWR ID Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Page 7 of 13

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	11		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category	& Concrete I	GPS Latitude/Longitude					
Calegory	Channels					End	
Item	Flap Gate	s		38.7588	80°	38.764680 °	
пеш				-121.6653	80 °	-121.635430 °	
DWR ID DWR_NA0055_2_t _ 2012_11							
Action/Comments							

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 12 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels 38.758880° Sluice/Slide Gates 38.764680° Item -121.665380° -121.635430 ° DWR ID DWR_NA0055_2_t _ 2012_12

Action/Comments

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	N	Issue No.		13	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Structures & Concrete Lined				GPS Latitude/Longitude			
Category Channels		Start		End			
Item	Electric G	ate Operators	;	38.7588	80°	38.764680 °	
пеш				-121.6653	80°	-121.635430 °	
DWR ID DWR_NA0055_2_t _ 2012_13							
		A -4: /	C	-1-			

Action/Comments
Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

No Photos

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.		14	
LM End	0.00	Issue Type +	Ма	Location *	CR		
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Channels			Start		End	
Item	Manual Gate Operators		38.75888	o°	38.764680	٥	
пеш				-121.66538	o°	-121.635430	٥
DWR ID	DWR_NA0055_2_t _ 2012_14						
			_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

Photo 1 of 6 : ST_2019_NA0055_2_15_20190717_00036.jpg

No Photos



View of the crack on the west abutment. Summer 2019.

Rating ** Issue No. LM Start 0.00 Α 15 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Concrete Surfaces 38.758880° 38.764680 ° Item -121.665380° -121.635430 ° DWR ID DWR_NA0055_2_t _ 2012_15

Action/Comments

Inspector Comments: Large crack on the west weir abutment. Minor spalling on the weir wall. A new fish passageway within the weir was constructed.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR

Photo 2 of 6 : ST_2019_NA0055_2_15_20190717_00037.jpg



Additional view of the crack on the west abutment. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00 Rating ** A			Issue No.	ue No. 15 (co		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Channels		Start		End		
Item	Concrete Surfaces			38.7588	80°	38.764680 °	
пеш				-121.6653	80°	-121.635430 °	
DWR ID	DWR_NA0055_2_t _ 2012_15						
Action/Comments							

Inspector Comments: Large crack on the west weir abutment. Minor spalling on the weir wall. A new fish passageway within the weir was constructed.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of spalling on the weir near the midpoint. Summer 2019.

Photo 4 of 6: ST_2019_NA0055_2_15_20190717_00031.jpg



View of the new fish passage and control structures. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR



View of the newly excavated back-channel, facing towards the Sacramento River. Summer 2019.

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

aintain En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		15 (cont)		
LM End	0.00	Issue Type +	Ma	Location *	CR			
Structures & Concrete Lined			GPS Latitude/Longitude					
Calegory	Channels			Start		End		
Item	Concrete Surfaces			38.7588	30°	38.764680 °		
item				-121.66538	30°	-121.635430 °		
DWR ID	DWR_NA0055_2_t _ 2012_15							
	A :: 10							

Action/Comments

Inspector Comments: Large crack on the west weir abutment. Minor spalling on the weir wall. A new fish passageway within the weir was constructed.

Photo 6 of 6 : ST_2019_NA0055_2_15_20190717_00034.jpg



View of the concrete transition from the weir to the fish passage structure. Summer 2019.

LM Start	0.00	Rating **	М	Issue No.		16
LM End	0.00	Issue Type +	Ma	Location *		CR
Category	Structures & Concrete Lined		GPS Latitude/Longitude			
Calegory	Channels			Start		End
Item	Concrete	Concrete Tilting / Settlement		38.7588	80°	38.764680 °
item				-121.6653	80°	-121.635430 °
DWR ID	DWR_NA0	055_2_t _ 2012	_16			

Action/Comments

Inspector Comments: There are some low spots at the stilling basin of the weir that do not threaten the integrity of the structure.

Photo 1 of 1 : ST_2019_NA0055_2_16_20190717_00038.jpg



Minor settlement on the stilling basin of the weir. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		17	
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category Chappels			GPS Latitude/Longitude				
Calegory	Channels			Start		End	
Itom	Concrete Foundations		38.7588	80°	38.764680	0	
Item				-121.6653	80°	-121.635430	0
DWR ID	DWR_NA0	055_2_t _ 2012	_17				
			_				

Action/Comments

Inspector Comments: No scouring / erosion or undermining near the structure.

No Photos

* Location LS: Land Side WS: Water Side CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type Ma : Mainte

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		18	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Channels			Start		End	
Security Fencing			38.7588	80°	38.764680	0	
Item				-121.6653	80°	-121.635430	0
DWR ID	DWR_NA0	055_2_t _ 2012	_18				

Action/Comments

Inspector Comments: Safety / security fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.

No Photos

Issue No. LM Start 0.00 Rating ** Ν 19 Issue Type + Location * CR 0.00 Ma LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Closure Structures 38.758880° 38.764680° Item -121.665380° -121.635430 ° DWR NA0055 2 t 2012 19 DWR ID

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

Rating ** Issue No. LM Start 0.00 20 0.00 Issue Type + Location * CR I M End Ma Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Trash Rakes 38.758880° 38.764680 ° Item -121.665380° -121.635430 ° DWR ID DWR_NA0055_2_t _ 2012_20 Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS: Land Side WS: Water Side CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	21		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category	Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Other Metallic Items		38.75888	0°	38.764680 °		
item				-121.66538	0°	-121.635430 °	
DWR ID	DWR_NA0055_2_t _ 2012_21						
Action/Comments							

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Α 22 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Monolith Joints 38.758880° 38.764680° Item -121.665380° -121.635430 ° DWR ID DWR NA0055 2 t 2012 22

Action/Comments

Inspector Comments: The monolith joint material is in good condition.

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 23 0.00 Issue Type + Ма Location * CR LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Safety 38.758880° 38.764680 ° Item -121.665380° -121.635430 ° DWR ID DWR_NA0055_2_t _ 2012_23 Action/Comments

Inspector Comments: No hazardous conditions that might affect the operation of the structure.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Fremont Weir		07/16/2019 07/16/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		1	
LM End	0.00	Issue Type +	Ma	Location *		CR	
Catagony	Structures & Concrete Lined			GPS Latitude/Longitude			
Channels			Start		End		
Operation & Maintenance		38.758909°		38.764638			
пеш	Manual			-121.6655	48 °	-121.635434 °	
DWR ID	DWR_NA0	055_2_t _ 2013	_1				
Action/Comments							
Inspector Comments: LMA has O&M manual for the weir.							

No Photos

* Location LS: Land Side WS: Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Unit Cover Sheet

2019 Structure Inspection Results

DWR Sacramento Maintenance Yard

Structure	
Knights Landing Outfall Structure	

Structure Rating	Α
Date of Inspection	7/23/2019
DWR Inspector	Zach Jojola
Accompanied By	

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.		1
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
Calegory				Start		End
Item	Photo Do	Photo Documentation		38.79956	0°	38.799320°
пеш				-121.72553	° o	-121.724850 °
DWR ID	DWR_NA0055_41_t _ 2012_1					·
Action/Comments						

Inspector Comments: Photos of the weir inlets and outlets.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ма	Location *	



View of the inlet side of the structure. Summer 2019.

Photo 2 of 2: ST_2019_NA0055_41_1_20190730_00013.jpg



View of the outlet side of the structure. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		2
LM End	0.00	Issue Type +	Ma	Location *		
Cotogoni	Structures & Concrete Lined		GPS Latitude/Longitude			
Category Channels				Start		End
Item	Vegetatio	Vegetation & Obstructions		38.79956	° 0	38.799320°
пеш	9111			-121.72553	80°	-121.724850 °
DWR ID	DWR_NA0	055_41_t _ 2012	2_2		Ì	·

Action/Comments

Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.



View of the channel looking downstream from the structure. Summer 2019.

* Location

LS: Land Side

WS: Water Side

CR: Crown

Monday, August 26, 2019 14:25

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		2 (cont)	
LM End	0.00	Issue Type +	Ma	Location *			
Catagony	Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetation & Obstructions		38.799560°		38.799320	0	
пеш				-121.7255	30°	-121.724850	0
DWR ID	DWR_NA0055_41_t _ 2012_2				·		
Action/Comments							

Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.



View of the accumulated vegetation on the log boom. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		3	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Category	Channels			Start		End	
Itom	Shoaling / Sedimentation			38.7995	60°	38.799320°	
item				-121.7255	30°	-121.724850 °	
DWR ID	DWR ID DWR_NA0055_41_t _ 2012_3						
Action/Comments							

Inspector Comments: No shoaling or sedimentation present.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		4	
LM End	0.00	Issue Type +	Ma	Location *			
Catagony	Structures & Concrete Lined			GPS Latitude/Longitude			
Category			Start		End		
Item	Erosion / Bank Caving			38.7995	60°	38.799320°	
item				-121.7255	30°	-121.724850 °	
DWR ID	DWR_NA0055_41_t _ 2017_4						
Action/Comments							

Inspector Comments: No active erosion or bank caving observed on the landward or on the riverward side of the levee.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable

: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

NA0055

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Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		5
LM End	0.00	Issue Type +	Ma	Location *		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
			Start		End	
Item	Revetments			38.7995	60°	38.799320°
item				-121.7255	30°	-121.724850 °
DWR ID	DWR_NA0055_41_t _ 2012_5					
Action/Comments						

Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.

LM Start	0.00	Rating **	Α	Issue No.	5 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of riprap on the left bank. Summer 2019.

Photo 2 of 2: ST_2019_NA0055_41_5_20190730_00018.jpg



View of the riprap on the right bank. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		6	
LM End	0.00	Issue Type +	Ma	Location *			
Catagory	Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroachments			38.7995	60°	38.799320	0
пеш				-121.7255	30°	-121.724850	0
DWR ID	DWR NA0	055 41 t 201	2 6				

Action/Comments

Inspector Comments: No trash, debris, excavation, structures, or other obstructions present within the project easement area.

No Photos

* Location

LS: Land Side

WS: Water Side

CR: Crown

* Rating

A : Acceptable
M : Minimally Acceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	7		
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined				GPS Latitude/Longitude			
Category Channels			Start		End		
Itom	Item Culverts: Inlets / Outlets			38.79956	o°	38.799320°	
пеш				-121.72553	0 °	-121.724850 °	
DWR ID	DWR_NA0055_41_t _ 2012_7						
Action/Comments							

No Photos

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	N	Issue No.		8	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined				GPS Latitude/Longitude			
Calegory	Channels			Start		End	
Culverts: Breaks / Holes /			38.7995	60°	38.799320	0	
пеш	Cracks			-121.7255	30°	-121.724850	0
DWR ID	DWR_NA0	055_41_t _ 201	2_8				
Action/Comments							

No Photos

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	N	Issue No.		9
LM End	0.00	Issue Type +	Ma	Location *		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
			Start		End	
Itom	Metal Pipes			38.7995	60°	38.799320°
Item '				-121.7255	30°	-121.724850 °
DWR ID	DWR ID DWR_NA0055_41_t _ 2012_9					
Action/Comments						

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS: Land Side WS: Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	10		
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Category	Channels			Start		End	
Item	Trash Rad	cks		38.79956	o°	38.799320°	
пеш				-121.72553	o°	-121.724850 °	
DWR ID	DWR_NA0	055_41_t _ 2012_10					
	Action/Comments						

Inspector Comments: This item does not apply to the inspection.

No Photos

Rating ** Issue No. LM Start 0.00 Α 11 0.00 Issue Type + Ма Location * LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Flap Gates 38.799560° 38.799320° Item -121.725530° -121.724850 ° DWR ID DWR NA0055 41 t 2012 11

Action/Comments

Inspector Comments: Flap gates open and close easily with minimal leakage. Gates show no corrosion damage and have been maintained. No Photos

LM Start	0.00	Rating **	Α	Issue No.		Issue No.		12
LM End	0.00	Issue Type +	Ma	Location *				
Category	Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Channels			Start		End		
Item	Sluice/Slic	de Gates		38.7995	60°	38.799320°		
item					30°	-121.724850 °		
DWR ID	DWR_NA0	055_41_t _ 201	2_12					

Action/Comments

Inspector Comments: Gates open and close freely with minor leakage. Sill is free of sediment and other obstructions. Gates and lifters have been maintained.

Photo 1 of 1: ST_2019_NA0055_41_12_20190730_00019.jpg



View of the open slide gate at the inlet. Summer 2019.

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	13	
LM End	0.00	Issue Type +	Ма	Location *		
Cotogoni	Structures & Concrete Lined			GPS Latitude/Longitude		
Calegory	Channels		Start		End	
Item	Electric G	ate Operators	i	38.79956	o°	38.799320 °
пеш					°	-121.724850 °
DWR ID	DWR_NA0	055_41_t _ 201	2_13			
		A .: /	_			

Action/Comments

Α

Ма

Issue No.

Location *

38.799560°

-121.725530°

14

38.799320 °

-121.724850 °

GPS Latitude/Longitude

Inspector Comments: The gates are in good working condition..

Rating **

Issue Type +

Structures & Concrete Lined

Manual Gate Operators

DWR NA0055 41 t 2012 14

LM Start

LM End

Category

Item

DWR ID

0.00

0.00

Channels

No Photos



View of the flap gate wheel. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.	14 (cont)
	0.00	Janua Typa I	N/-	Location *	

Action/Comments
Inspector Comments: The manual gates are in good working condition.



View of the control structure to manually close the flap gates. Summer 2019.

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined				GPS Latitude/Longitude		
Category	Channels	Channels				End
Item	Concrete	Surfaces		38.79956	° 0	38.799320°
пеш				-121.72553	° o	-121.724850 °
DWR ID DWR_NA0055_41_t _ 2012_15						
	Action/Comments					

Inspector Comments: Negligible spalling, scaling or cracking.



Minor cracking on the north abutment. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		16
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined				GPS Latitude/Longitude		
Category	Channels			Start		End
Item	Concrete	Tilting / Settle	ment	38.7995	60°	38.799320°
пеш				-121.7255	30°	-121.724850 °
DWR ID	DWR_NA0	055_41_t _ 201	2_16		·	
			_			

Action/Comments

Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		17	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Lat	itud	e/Longitude		
Category	Channels			Start		End	
Item	Concrete	Foundations		38.79956	o°	38.799320	0
item	item			-121.72553	o°	-121.724850	0
DWR ID	DWR_NA0	055_41_t _ 201	2_17				

Action/Comments

Inspector Comments: No scouring / erosion or undermining near the structure.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

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Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	18	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS La	atitud	le/Longitude	
Category	Channels			Start		End
Item	Security F	encing		38.7995	60°	38.799320°
item		, -			30°	-121.724850 °
DWR ID DWR_NA0055_41_t _ 2012_18						
Action/Comments						

Inspector Comments: Safety / security fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.



View of security fencing around structure. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.	19	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined GPS Latitude/Long						le/Longitude
Category	Channels		Start		End	
Item	Closure Structures			38.7995	60°	38.799320°
пеш			-121.7255	30°	-121.724850 °	
DWR ID	DWR ID DWR_NA0055_41_t _ 2012_19					
		A ation/	Camma	-t-		

Action/Comments

Inspector Comments: This structure does not have a closure structure.

No	Photos

LM Start	0.00	Rating **	N	Issue No.	20	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			uctures & Concrete Lined GPS Latitude/Longitude		
Calegory				Start		End
Item	Trash Rakes			38.7995	° 08	38.799320°
пеш				-121.7255	30°	-121.724850 °
DWR ID	DWR ID DWR_NA0055_41_t _ 2012_20					
Action/Comments						

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location
LS: Land Side
WS: Water Side
CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	21		
LM End	0.00	Issue Type +	Ma	Location *			
Category	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels			Start		End	
Item	Other Met	Other Metallic Items			o°	38.799320 °	
пеш					o°	-121.724850 °	
DWR ID	ID DWR_NA0055_41_t _ 2013_21						
	Action/Comments						

Inspector Comments: All metallic items have been replaced or protected in 2012-2013.

Issue No. LM Start 0.00 Rating ** Α 22 Issue Type + Ма Location * 0.00 LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Monolith Joints 38.799560° 38.799320° Item -121.725530° -121.724850 ° DWR ID DWR NA0055 41 t 2012 22

Action/Comments

Inspector Comments: The monolith joint material is in good condition.

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 23 0.00 Issue Type + Ma Location * I M End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Safety 38.799560° 38.799320 ° Item -121.725530° -121.724850 ° DWR ID DWR_NA0055_41_t _ 2012_23 Action/Comments

Inspector Comments: Safety hardware installed. Adequate protection for fall hazards exist. No hazardous conditions that might affect the operation of the structure exist.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Knights Landing Outfall Structure		07/23/2019 07/23/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		24	
LM End	0.00	Issue Type +	Ma	Location *			
Category	Structures & Concrete Lined			GPS La	tituc	le/Longitude	
Calegory	Channels	Channels				End	
Item	Operation & Maintenance			38.7995	60°	38.799320 °	
item	Manual	Manual			30°	-121.724850 °	
DWR ID	DWR ID DWR_NA0055_41_t _ 2013_24						
Action/Comments							
Inspector Comments: The yard has the manuals for this structure.							

No Photos

* Location LS : Land Side WS : Water Side CR : Crown

Monday, August 26, 2019 14:25

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance

Unit Cover Sheet

2019 Structure Inspection Results

DWR Sacramento Maintenance Yard

Structure	
Paradise Dam	

Structure Rating	М
Date of Inspection	7/25/2019
DWR Inspector	Alberto De Leon
Accompanied By	

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	24	
LM End	0.00	Issue Type +	Ma	Location *	CR	
Category	Structures & Concrete Lined			uctures & Concrete Lined GPS Latitude/Longitude		
Calegory	Channels		Start		End	
Item	Photo Documentation		37.76071	3°	37.760713°	
пеш			-121.30955	o°	-121.309550 °	
DWR ID	DWR_NA0055_52_t _ 2012_24					
Action/Comments						

Inspector Comments: Paradise Dam is located at the head of Paradise Cut adjoining the San Joaquin River. It is a weir type structure composed of heavy quarry stone and a concrete cap at the crest of the weir that is about 8 feet wide. The dam spans between RD 2107 Mossdale Island, Unit 2 and RD 2095 Paradise Cut, Unit 1.



View of Paradise Dam from the right bank of Paradise Cut. Summer

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR

Photo 2 of 4: ST_2019_NA0055_52_24_20190730_00017.jpg



View of Paradise Dam from left bank of Paradise Cut. Summer 2019

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	CR





View looking downstream at Paradise Cut. Summer 2019

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	24 (cont)		
LM End	0.00	Issue Type +	Ma	Location *	CR		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude				
			Start		End		
Item	Photo Do	cumentation		37.7607	13°	37.760713°	
пеш				-121.3095	50°	-121.309550 °	
DWR ID	DWR_NA0	2_24					
Action/Comments							

Inspector Comments: Paradise Dam is located at the head of Paradise Cut adjoining the San Joaquin River. It is a weir type structure composed of heavy quarry stone and a concrete cap at the crest of the weir that is about 8 feet wide. The dam spans between RD 2107 Mossdale Island, Unit 2 and RD 2095 Paradise Cut, Unit 1.

Photo 4 of 4 : ST_2019_NA0055_52_24_20190730_00019.jpg



View looking upstream of the San Joaquin river side of Paradise Dam. Summer 2019

LM Start	0.00	Rating **	U	Issue No.		2
LM End	0.00	Issue Type +	Ma	Location *	WS	
Structures & Concrete Lined			GPS Latitude/Longitude			
Category Channels			Start		End	
Item	Vegetatio	n & Obstruction	ns	37.76058	34°	37.760584°
item				-121.3094	50°	-121.309450 °
DWR ID	DWR_NA0	055_52_t _ 201	2_2			·

Action/Comments
Inspector Comments: Dense vegetation may impede the flow of the San Joaquin River at the dam inlet.

Photo 1 of 2: ST_2019_NA0055_52_2_20190730_00009.jpg



View of vegetation on the riverside side of structure, looking westward. Summer 2019

LM Start	0.00	Rating **	U	Issue No.	2 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS





View of vegetation on the riverside of structure, looking westward. Summer 2019

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

A : Acceptable
M : Minimally Acceptable

N : Not Inspected/Rated C : Corrected + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	Α	Issue No.	3		
LM End	0.00	Issue Type +	Ma	Location *	WS		
Catagony	- 11 - 1 - 1 - 1	& Concrete I	_ined	GPS La	tituc	le/Longitude	
Category Channels				Start		End	
Item	Shoaling /	Sedimentation	n	37.76058	84 °	37.760584°	
item				-121.30945	0°	-121.309450 °	
DWR ID	DWR_NA0	2_3					
Action/Comments							

Inspector Comments: Channel flows and capacity are not impeded by sedimentation.

LM Start	0.00	Rating **	Α	Issue No.	3 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS



View of sedimentation on channel side of dam. Summer 2019

Photo 2 of 2: ST_2019_NA0055_52_3_20190730_00014.jpg



View of sedimentation on channel side of dam. Summer 2019

LM Start	0.00	Rating **	Α	Issue No.		4		
LM End	0.00	Issue Type +	Ma	Location *		WS		
Structures & Concrete Lined			GPS La	atitud	e/Longitude			
Calegory	Channels		Start		End			
Item	Erosion /	Erosion / Bank Caving			84°	37.760584		
item					50°	-121.309450		
DWR ID	DWR_NA0055_52_t _ 2012_4							
Action/Comments								
Inspector (Inspector Comments: No active erosion or bank caving observed.							

No Photos

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

NA0055

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	Α	Issue No.	5		
LM End	0.00	Issue Type +	Ма	Location *	WS		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude				
			Start		End		
Item	Revetmer	nts		37.7605	84°	37.760584°	
item				-121.3094	50°	-121.309450 °	
DWR ID	DWR_NA0055_52_t _ 2017_5						
Action/Comments							

Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.





View of riprap protection on channel side of dam. Summer 2019

Photo 2 of 2: ST_2019_NA0055_52_5_20190611_00004.jpg



View of riprap protection that is clearly visible. Summer 2018

LM Start	0.00	Rating **	Α	Issue No.	6		
LM End	0.00	Issue Type +	Ma	Location *	WS		
Structures & Concrete Lined			GPS La	titud	e/Longitude		
Category	Channels			Start		End	
Item	Encroach	ments		37.76058	84 °	37.760584	0
item				-121.30945	0°	-121.309450	0
DWR ID	DWR_NA0	055_52_t _ 201	2_6				

Action/Comments

Inspector Comments: No trash, debris, excavation, structures, or other obstructions present within the project easement area.

No Photos

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable M : Minimally Acceptable N : Not Inspected/Rated C : Corrected VW : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	7		
LM End	0.00	Issue Type +	Ма	Location *	WS		
Structures & Concrete Lined			GPS Latitude/Longitude				
Category	Channels	nannels		Start		End	
Item	Culverts:	Inlets / Outlets	3	37.76058	4 °	37.760584°	
пеш				-121.30945	0 °	-121.309450 °	
DWR ID	DWR_NA0	055_52_t _ 201	2_7				
			_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 8 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Culverts: Breaks / Holes / 37.760584° 37.760584° Item Cracks -121.309450° -121.309450 ° DWR ID DWR_NA0055_52_t _ 2012_8

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 0.00 Issue Type + Ma Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Metal Pipes 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR_NA0055_52_t _ 2012_9 DWR ID Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	10		
LM End	0.00	Issue Type +	Ма	Location *	WS		
Cotogoni	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Category Channels		Start		End		
Item	Trash Rad	cks		37.76058	4 °	37.760584	
пеш				-121.30945	o°	-121.309450	
DWR ID	DWR_NA0	055_52_t _ 201	2_10				
			_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 11 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Flap Gates 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR NA0055 52 t 2012 11 DWR ID Action/Comments

Inspector Comments: This item does not apply to this inspection.

Issue No. Rating ** LM Start 0.00 12 0.00 Issue Type + Ma Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Sluice/Slide Gates 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR_NA0055_52_t _ 2012_12 DWR ID Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	13				
LM End	0.00	Issue Type +	Ma	Location *	WS				
Structures & Concrete Lined				GPS Latitude/Longitude					
Calegory	Channels	Channels				End			
Item	Electric G	ate Operators	;	37.76058	4°	37.760584°			
пеш				-121.309450 °		-121.309450 °			
DWR ID	DWR_NA0	055_52_t _ 201	2_13						
	A 11 10								

Action/Comments

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 14 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Manual Gate Operators 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR ID DWR NA0055 52 t 2012 14

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 15 0.00 Issue Type + Ma Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Concrete Surfaces 37.760584° 37.760584° Item -121.309450 ° -121.309450 ° DWR_NA0055_52_t _ 2012_15 DWR ID Action/Comments

Inspector Comments: This item does not apply to the inspection.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	16		
LM End	0.00	Issue Type +	Ma	Location *	WS		
Structures & Concrete Lined			GPS Latitude/Longitude				
Category	Channels			Start		End	
Item	Concrete	Concrete Tilting / Settlement			4 °	37.760584°	
пеш				-121.30945	0°	-121.309450 °	
DWR ID	DWR_NA0	055_52_t _ 201	2_16				
		A .:	_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Rating ** Issue No. LM Start 0.00 Ν 17 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Concrete Foundations 37.760584° 37.760584° Item -121.309450 ° -121.309450 ° DWR ID DWR_NA0055_52_t _ 2012_17

Action/Comments

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	N	Issue No.		18	
LM End	0.00	Issue Type +	Ма	Location *	WS		
Category Structures & Concrete Lined Channels				GPS Latitude/Longitude			
				Start		End	
ltom	Security F	encing		37.7605	84°	37.760584°	
Item , , , , , , , , , , , , , , , , , , ,				-121.309450 °		-121.309450 °	
DWR ID DWR_NA0055_52_t _ 2012_18							
Action/Comments							

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS : Land Side WS : Water Side CR : Crown

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Mainte

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	19		
LM End	0.00	Issue Type +	Ма	Location *	WS		
Cotogoni	Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Category Channels		Start		End		
Item	Closure S	Closure Structures		37.76058	4 °	37.760584	0
пеш				-121.30945	o°	-121.309450	0
DWR ID	DWR_NA0	055_52_t _ 201	2_19				
			_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

Rating ** Issue No. LM Start 0.00 Ν 20 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Trash Rakes 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR NA0055 52 t 2012 20 DWR ID

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 21 0.00 Issue Type + Location * WS LM End Ma Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Other Metallic Items 37.760584° 37.760584° Item -121.309450° -121.309450 ° DWR_NA0055_52_t _ 2012_21 DWR ID Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Paradise Dam		07/25/2019 07/25/2019	Alberto De Leon

LM Start	0.00	Rating **	N	Issue No.	22		
LM End	0.00	Issue Type +	Ма	Location *	WS		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude				
			Start		End		
Item	Monolith Joints			37.76058	4 °	37.760584°	
nem		-121.30945	o°	-121.309450°			
DWR ID DWR_NA0055_52_t _ 2012_22							
1							

Action/Comments

Inspector Comments: This item does not apply to this inspection.

LM Start 0.00 Α 23 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels

Issue No.

Safety 37.760584° 37.760584° Item -121.309450 ° -121.309450 °

DWR NA0055 52 t 2012 23 DWR ID

Action/Comments

Inspector Comments: There are no issues at this time.

Rating **

No Photos

No Photos

Issue No. Rating ** LM Start 0.00 0.00 Issue Type + Ма Location * WS LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Operation & Maintenance 37.760584° 37.760584° Item Manual -121.309450° -121.309450 ° DWR_NA0055_52_t _ 2013_1 DWR ID Action/Comments

Inspector Comments: There is no O&M Manual at this structure.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Flood Control Project Maintenance

Unit Cover Sheet

2019 Structure Inspection Results

DWR Sacramento Maintenance Yard

Str	ucture
Sacran	nento Weir

Structure Rating	М
Date of Inspection	7/3/2019
DWR Inspector	Zach Jojola
Accompanied By	James Kortuem DWR
	Makar Sokol DWR

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24	
LM End	0.00	Issue Type +	Ma	Location *		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
			Start		End	
ltom	Photo Documentation			38.607120°		38.607120°
Item				-121.560100 °		-121.560100°
DWR ID DWR_NA0055_1_t _ 2012_24						
Action/Comments						

Inspector Comments: South and North ends of the weir.



View of the weir outlet from the south end. Summer 2019.

LM Start 0.00 Rating ** Issue No. 24 (cont) Location * LM End 0.00 Issue Type + Ma

Photo 2 of 4: ST_2019_NA0055_1_24_20190703_00022.jpg



View of the weir outlet from the north end. Summer 2019. Photo 3 of 4: ST_2019_NA0055_1_24_20190703_00023.jpg

LM Start	0.00	Rating **	N	Issue No.	24 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of the weir inlet from the north end. Summer 2019.

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	24 (cont)		
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Category Channels			Start		End	
Item	Photo Documentation			38.60712	20°	38.607120°	
пеш				-121.56010	00°	-121.560100°	
DWR ID	R ID DWR_NA0055_1_t _ 2012_24						
Action/Comments							

Inspector Comments: South and North ends of the weir.



View of the weir inlet from the south end. Summer 2019.

LM Start	0.00	Rating **	Α	Issue No.		2
LM End	0.00	Issue Type +	Ma	Location *		
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude			
			Start		End	
Item	Vegetation & Obstructions		38.6071	20°	38.607120°	
item		-121.5601	00°	-121.560100 °		
DWR ID	DWR_NA0	055_1_t _ 2012	_2			

Action/Comments

Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.

No Photos

LM Start	0.00	Rating **	Α	Issue No.	3		
LM End	0.00	Issue Type +	Ma	Location *			
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude				
			Start		End		
Shoaling / Sedimentation			38.607120°		38.607120	0	
пеш	ltem 5			-121.5601	00°	-121.560100	0
DWR ID	DWR_NA0	055_1_t _ 2012	_3				
Action/Comments							

Inspector Comments: No sedimentation present.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	4		
LM End	0.00	Issue Type +	Ма	Location *			
Cotogoni	Structures & Concrete Lined			GPS Latitude/Longitude			
Category Channels		Start		End			
Item	Erosion / Bank Caving			38.60712	0 °	38.607120 °	
item			-121.56010	0 °	-121.560100 °		
DWR ID	DWR_NA0	055_1_t _ 2012 ₋	_4				
A .: 10							

Action/Comments

Inspector Comments: No active erosion or bank caving observed on the landward or on the riverward side of the structure.

No Photos

No Photos

LM Start	0.00	Rating **	N	Issue No.		5
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels			Start		End
Item	Revetments			38.6071	20°	38.607120 °
пеш				-121.5601	00°	-121.560100 °
DWR ID	DWR_NA0	055_1_t _ 2012	_5			

Action/Comments

Inspector Comments: This item does not apply to this inspection.

LM Start	0.00	Rating **	М	Issue No.		6	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Category	Channels			Start		End	
Item	Encroach	ments		38.6071	20°	38.607120 °	
ILEIII				-121.5601	00°	-121.560100 °	
DWR ID	DWR_NA0055_1_t _ 2012_6					·	
		Action/	Comme	nts			

Inspector Comments: Some small trash in bay 48.

No Photos

* Location LS: Land Side WS: Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.		7	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined				GPS Latitude/Longitude			
Calegory				End			
Item	Culverts:	Inlets / Outlets	5	38.60712	0°	38.607120°	
пеш				-121.56010	0 °	-121.560100 °	
DWR ID	ID DWR_NA0055_1_t _ 2012_7						
	Action/Comments						

Inspector Comments: This item does not apply to this inspection.

No Photos

LM Start	0.00	Rating **	N	Issue No.		8	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Category Channels			Start		End		
Item		Breaks / Hole	s/	38.60712	0°	38.607120 °	>
пеш	Cracks			-121.56010	0°	-121.560100 °	>
DWR ID	DWR_NA0	055_1_t _ 2012	_8				
			_				

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

LM Start	0.00	Rating **	N	Issue No.	9							
LM End	0.00	Issue Type +	Ма	Location *								
Category Structures & Concrete Lined Channels			GPS Latitude/Longitude									
			Start		End							
Item	Metal Pipe	es		38.6071	20°	38.607120 °	>					
пеш				-121.5601	00°	-121.560100 °	>					
DWR ID	DWR_NA0	055_1_t _ 2012	_9									
		Action/	Comme	nts		Action/Comments						

Inspector Comments: This item does not apply to this inspection.

No Photos

* Location LS: Land Side WS: Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.		10	
LM End	0.00	Issue Type +	Ma	Location *			
Structures & Concrete Lined			GPS Latitude/Longitude				
Calegory	Category Channels			Start		End	
Item	Trash Rad	cks		38.60712	20°	38.607120°	
пеш				-121.56010	00°	-121.560100 °	
DWR ID	DWR_NA0	0055_1_t _ 2012_10					
	Action/Comments						

Inspector Comments: This item does not apply to this inspection.

No Photos

Rating ** Issue No. LM Start 0.00 Ν 11 0.00 Issue Type + Ма Location * LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Flap Gates 38.607120° 38.607120° Item -121.560100 ° -121.560100 ° DWR ID DWR NA0055 1 t 2012 11

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

LM Start	0.00	Rating **	М	Issue No.		12
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Lat	tud	e/Longitude	
Calegory	Category Channels			Start		End
Item	Sluice/Sli	de Gates		38.60712	o°	38.607120 °
пеш					o°	-121.560100 °
DWR ID	DWR_NA0	055_1_t _ 2012	_12			
		A -4:	O	-4-		

Action/Comments

Inspector Comments: Some needles and hinges need replacement. A Sac Yard utility craftsworker said they will replace them before the beginning of the 2019 flood season.

Photo 1 of 2 : ST_2019_NA0055_1_12_20190708_00038.jpg



View of broken needles in bay 3. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.		12 (cont)
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Latitude/Longitude			
Category	Channels			Start		End
Item	Sluice/Slic	de Gates		38.6071	20°	38.607120°
item				-121.5601	00°	-121.560100 °
DWR ID	R ID DWR_NA0055_1_t _ 2012_12					
		Action/	Comme	nts		

Inspector Comments: Some needles and hinges need replacement. A Sac Yard utility craftsworker said they will replace them before the beginning of the 2019 flood season.



View of broken needles in bay 38. Summer 2019.

LM Start	0.00	Rating **	N	Issue No.		13
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Latitude/Longitude			
Calegory	Channels		Start		End	
Item	Electric G	ate Operators	;	38.6071	20°	38.607120°
пеш				-121.5601	00°	-121.560100 °
DWR ID	DWR_NA0	055_1_t _ 2012	_13			
		A ation/	Camma	n+0		

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		14	
LM End	0.00	Issue Type +	Ma	Location *			
Category	Structures	GPS La	titud	le/Longitude			
Calegory	Channels			Start		End	
Item	Manual Gate Operators			38.60712	20°	38.607120	0
пеш				-121.56010	00°	-121.560100	0
DWR ID	DWR_NA0						
Action/Comments							

Action/Comments

Inspector Comments: The manual gate operators appear to be in good condition.

No Photos

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Lat	itud	e/Longitude	
Category	Channels			Start		End
Item	Concrete Surfaces			38.60712	o°	38.607120°
пеш			-121.56010		0 °	-121.560100 °
DWR ID	WR ID DWR_NA0055_1_t _ 2016_15					·
Action/Comments						

Inspector Comments: Spalling and cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel is exposed. Sacramento Maintenance has done a great job in repairing the concrete surfaces. Some minor repairs are left to be done.

LM Start	0.00	Rating **	М	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of crack and spalling in bay 1. Summer 2019.

Photo 2 of 8: ST_2019_NA0055_1_15_20190708_00026.jpg



View of exposed rebar in bay 1. Summer 2019.

LM Start	0.00	Rating **	М	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of spalling in bay 4. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintain En : Enforcement

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.		15 (cont)
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS Latitude/Longitude			
Category Channels			Start		End	
Item	Concrete	Surfaces		38.6071	20°	38.607120°
пеш				-121.5601	00°	-121.560100 °
DWR ID	R ID DWR_NA0055_1_t _ 2016_15					
Action/Comments						

Inspector Comments: Spalling and cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel is exposed. Sacramento Maintenance has done a great job in repairing the concrete surfaces. Some minor repairs are left to be done.

LM Start	0.00	Rating **	М	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of exposed metal in bay 37. Summer 2019.

Photo 5 of 8: ST_2019_NA0055_1_15_20190708_00034.jpg



View of spalling in bay 43. Summer 2019.

LM Start	0.00	Rating **	М	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of cracking in bay 48. Summer 2019.

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

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Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined			GPS La	titud	le/Longitude	
Category	Channels			Start		End
Item	Concrete	Surfaces		38.60712	20°	38.607120°
item				-121.56010	00°	-121.560100 °
DWR ID	DWR_NA0055_1_t _ 2016_15					
Action/Comments						

Inspector Comments: Spalling and cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel is exposed. Sacramento Maintenance has done a great job in repairing the concrete surfaces. Some minor repairs are left to be done.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	



View of cracking in bay 48. Summer 2019.

Photo 8 of 8: ST_2019_NA0055_1_15_20190708_00037.jpg



View of cracking in bay 48. Summer 2019.

	LM Start	0.00	Rating **	Α	Issue No.		16	
	LM End	0.00	Issue Type +	Ma	Location *			
	Catagony		& Concrete I	Lined	GPS Latitude/Longitude			
	Category	Channels			Start		End	
	Item	Concrete	Tilting / Settle	ment	38.6071	20°	38.607120	0
					-121.5601	00 °	-121.560100	0
	DWR ID	DWR_NA0	055_1_t _ 2012	_16				

Action/Comments

Inspector Comments: No concrete tilting or differential settlement was noted.

No Photos

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.	17			
LM End	0.00	Issue Type +	Ма	Location *				
Structures & Concrete Lined		GPS Latitude/Longitude						
Category	Channels			Start		End		
Itom	Concrete Fo			38.60712	o°	38.607120 °		
пеш				-121.56010	°	-121.560100 °		
DWR ID	DWR ID DWR_NA0055_1_t _ 2012_17							
A - t' 10 t -								

Action/Comments

Inspector Comments: The foundation appears to be in good shape.

No Photos

Issue No. LM Start 0.00 Rating ** Α 18 Issue Type + Ма Location * 0.00 LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Security Fencing 38.607120° 38.607120° Item -121.560100° -121.560100 ° DWR ID DWR_NA0055_1_t _ 2012_18

Action/Comments

Inspector Comments: Safety / security fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal No Photos

Rating ** Issue No. LM Start 0.00 19 0.00 Issue Type + Location * I M End Ma Structures & Concrete Lined GPS Latitude/Longitude Category Channels End Start Closure Structures 38.607120° 38.607120 ° Item -121.560100° -121.560100 ° DWR ID DWR_NA0055_1_t _ 2012_19 Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	20	
LM End	0.00	Issue Type +	Ma	Location *		
Structures & Concrete Lined				GPS Latitude/Longitude		
Category	Channels			Start		End
Item	Trash Ral	res		38.60712	0 °	38.607120°
item				-121.56010	0 °	-121.560100 °
DWR ID DWR_NA0055_1_t _ 2012_20						
A - 1' 1 (O 1 -						

Action/Comments

Inspector Comments: This item does not apply to this inspection.

No Photos

No Photos

Rating ** Issue No. LM Start 0.00 Α 21 0.00 Issue Type + Ма Location * LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Other Metallic Items 38.607120° 38.607120° Item -121.560100 ° -121.560100 ° DWR ID DWR_NA0055_1_t _ 2012_21

Action/Comments

Inspector Comments: All metal parts are protected from corrosion damage, and show no rust or deterioration that would cause a safety concern.

LM Start	0.00	Rating **	Α	Issue No.	22		
LM End	0.00	Issue Type +	Ma	Location *			
Category		& Concrete I	_ined	GPS Latitude/Longitude			
Calegory	Channels			Start		End	
Item	Monolith Joints			38.6071	20°	38.607120°	
пеш	item			-121.5601	00°	-121.560100 °	
DWR ID DWR_NA0055_1_t _ 2012_22						·	
Action/Comments							

Inspector Comments: All joints appear to be in good condition.

No Photos

Location LS: Land Side WS: Water Side CR : Crown

A: Acceptable

M: Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Structure 2019

DWR Sacramento Maintenance Yard

Structure	Structure Length	Inspection Start/End	Inspector
Sacramento Weir		07/03/2019 07/03/2019	Zach Jojola

LM Start	0.00	Rating **	Α	Issue No.		23	
LM End	0.00	Issue Type +	Ma	Location *			
Category Changels		& Concrete I	_ined	GPS La	titud	itude/Longitude End 38.607120 °	
Calegory	Channels			Start		End	
Item	Safety			38.6071	20°	38.607120 °	
item				-121.5601	00°	-121.560100 °	
DWR ID DWR_NA0055_1_t _ 2012_23							
Action/Comments							

Inspector Comments: There are no identified safety issues at this time.

Rating ** Issue No. LM Start 0.00 Α 0.00 Issue Type + Ма Location * LM End Structures & Concrete Lined GPS Latitude/Longitude Category Channels Operation & Maintenance 38.607120° 38.607120° Item Manual -121.560100° -121.560100 °

DWR ID DWR_NA0055_1_t _ 2013_1

Action/Comments

Inspector Comments: The LMA has the O&M manual for this structure.

No Photos

No Photos

* Location LS: Land Side WS: Water Side CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence